

SOPC00077



TENNESSEE DEPARTMENT OF AGRICULTURE
Water Resources Program

December 7, 2011

Ms. Erin O'Brien
TDEC
L&C Annex, 6th Floor
Nashville, Tennessee 37243

RECEIVED

DEC 09 2011

TN Division Of Water
Pollution Control

Dear Ms. O'Brien:

I am writing to inform you that the Tennessee Department of Agriculture (TDA) has reviewed the application and Nutrient Management Plan (NMP) for revision of CAFO permit, SOPC00077, for Mr. Marvin Betts, A Fowl Place, in Winchester, Tennessee. The current permit was originally issued for both of his operations, "A Fowl Place" and "Chick Inn." The latter facility closed on May 27, 2011. Mr. Betts sent a letter to TDA which stated that the closure plan for "Chick Inn" had been implemented. As required per the permit, Mr. Betts has submitted these materials to inform the State and update his current CAFO permit which includes an updated NMP.

This letter is to confirm that the TDA has reviewed and approved the NMP. I have enclosed a copy of the Nutrient Management Plan Requirements form and the original signed and dated Notice of Intent (NOI) form, Addendum to Nutrient Management Plan, Closure Plan, CNMP, and stamped Approval Stamp form for your review and final approval.

Sincerely,

A handwritten signature in cursive script, appearing to read "Angela L. Warden".

Angela L. Warden
CAFO Specialist

: //enclosures

cc:// Mr. Marvin Betts, Owner

Ellington Agricultural Center
440 Hogan Road
Nashville, TN 37220
Telephone: 615-837-5492 Fax: 615-837-5025



TENNESSEE DEPARTMENT OF AGRICULTURE

Water Resources Program

The following individual has submitted all required elements of an NMP/CNMP as required to obtain a CAFO permit. Their Nutrient Management Plan (or CNMP) has been reviewed and approved by this office.

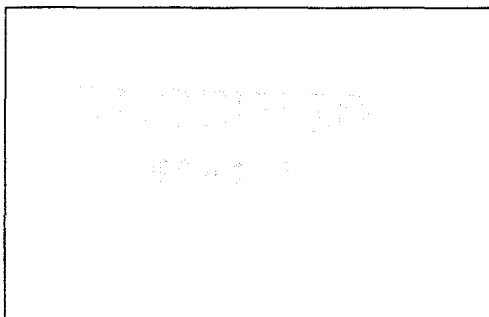
Name of Owner/Operator: Marrin Betts

Operation Name: A Fowl Place

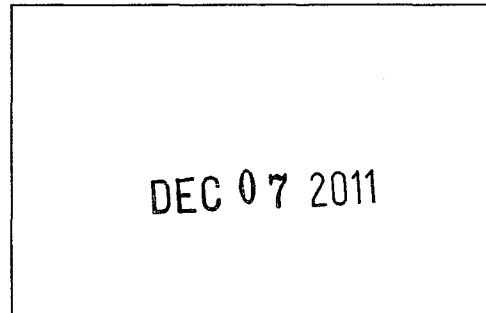
Address of Operation: 6859 Tanager Hill Rd. Winchester, TN 37398

Phone Number: (931) 947-8432 County: Moore

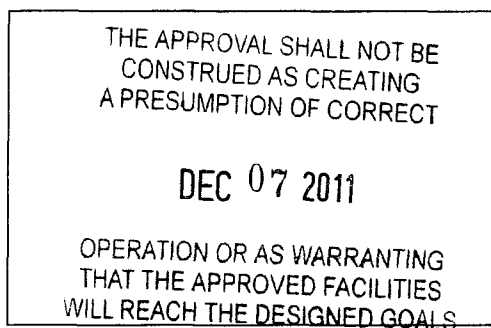
Date application was initiated:



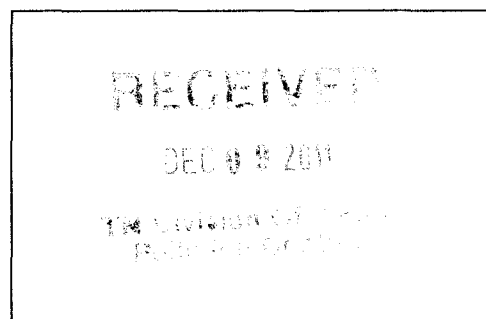
Date approval forwarded to TDEC:



NMP/CNMP Approval Date:



Date approval received by TDEC



TDA Reviewer's Name: Angela Warden

TDA Reviewer's Signature: Angela Warden Date: 12/7/11

12/7/11

Marrin Betts

Winchester, TN

A Fowl PLACE

Nutrient Management Plan Requirements

Moore CO. 7A

The following 9 items need to be submitted at the time the permit is applied for. Additional record-keeping items as outlined in the CAFO rules are also considered part of the nutrient management plan and must be kept on-site. More information on each item can be found in the CAFO rule (1200-4-5-.14).

- ☒ 1. **Two maps:** (1.) A map of your farm showing location of any animal barns/houses, compost bins, litter storage bins, manure lagoons/holding ponds, nearby roads, fields to which litter/manure will be applied, and non-application buffer areas around any bodies of water (streams, creeks, rivers, ponds, wells, sinkholes, springs, wetlands, etc.). A hand-drawn map is acceptable and even preferred. (2.) A topographic map of the farm (1:24000 scale, showing 1-mile radius from farm) showing property lines.
- ☒ 2. **Nutrient budget** – this is basically a balance sheet of all manure produced on the farm and all manure spread on the farm or removed from the farm. Application rates for all fields should be based on crop needs, realistic crop yield expectations, and actual manure analyses of nutrient content.
- ☒ 3. **Soil test results** for phosphorus and potassium for each application field. These must be taken at a minimum of every five years.
- ☒ 4. Results of **manure analysis** from within the past year. Annual manure testing is a requirement for all CAFOs. These results must be included with initial permit application if the farm is in operation. If the farm that is applying for the permit is new and not yet operating, then manure testing results need to be obtained once operation begins. At that point, the manure test results and revised application rates need to be submitted to TDA. Manure test results in subsequent years need to be kept as part of your record-keeping activities.
- ☒ 5. Results of the **Phosphorus Index** applied to each field that has a soil test P value of "High" or "Very High". In those situations, this tool will determine whether your application rates will be based on nitrogen or phosphorus.
- ☒ 6. Statement regarding method of **dead animal disposal**.
- ☒ 7. **Closure Plan** to be implemented in the event animal production ceases on the site.

These last two items are only required for medium-size CAFOs that manage **liquid manure**.

- ☒ 8. Documentation of **design of liquid waste handling system**. This should include, but is not limited to: volume for solids accumulation, design treatment volume, total design volume, the approximate number of days of storage capacity, pumping and routing of wastes, and any solid separation process. Ideally, this documentation would consist of the pertinent engineering drawings with accompanying descriptive narrative.
- ☒ 9. The construction, modification, repair, or installation of any portion of a CAFO liquid waste handling system (such as earthen holding pond, treatment lagoon, pit, sump or other earthen storage/containment structure) after April 13, 2006 must be preceded by a thorough **subsurface investigation**. This investigation will include a detailed soils investigation with special attention to the water table depth and seepage potential.

In addition to the items above, the following form(s) must accompany your application:

- ☒ **Notice of Intent form** must be submitted with all applications from Class II (Medium) CAFOs
- OR**
- ☒ **EPA Forms 1 and 2B** must be submitted with all applications from Class I (Large) CAFOs.
- ☒ **Addendum to Nutrient Management Plan**.



Tennessee Department of Environment and Conservation,
Division of Water Pollution Control
401 Church Street, 6th Floor L & C Annex, Nashville, TN 37243
(615) 532-0625

**CONCENTRATED ANIMAL FEEDING OPERATION (CAFO)
STATE OPERATING PERMIT (SOP)
NOTICE OF INTENT (NOI)**

Type of permit you are requesting: ☐ SOPCD0000 (designed to discharge) ☐ SOPC00000 (no discharge) ☐ Unknown, please advise
Application type: ☐ New Permit ☐ Permit Reissuance ☒ Permit Modification
If this NOI is submitted for Permit Modification or Reissuance provide the existing permit tracking number: SOPC000077

OPERATION IDENTIFICATION

Operation Name: <u>A Fowl Place</u>		County: <u>Moore</u>
Operation Location/ Physical Address: <u>6859 Tanyard Hill RD</u> <u>Winchester TN 37398</u>		Latitude: <u>35° 13' 39.5" N</u> Longitude: <u>86° 18' 57.8" W</u>
Name and distance to nearest receiving water(s): <u>Tims Ford Dam 1500'</u>		
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list those permit numbers:		
Animal Type: <input checked="" type="checkbox"/> Poultry <input type="checkbox"/> Swine <input type="checkbox"/> Dairy <input type="checkbox"/> Beef <input type="checkbox"/> Other _____		
Number of Animals: <u>62600</u>	Number of Barns: <u>2</u>	Name of Integrator: <u>MARVIN BETTS</u>
Type of Animal Waste Management: (check all that apply) <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Liquid <input type="checkbox"/> Liquid, Closed System (i.e. covered tank, under barn pit, etc.)		
Attach the NMP <input checked="" type="checkbox"/> NMP Attached	Attach the closure plan <input checked="" type="checkbox"/> Closure Plan Attached	Attach a topographic map <input checked="" type="checkbox"/> Map Attached

PERMITTEE IDENTIFICATION

Official Contact (applicant): <u>Marvin Betts</u>		Title or Position: <u>Owner</u>		<input type="checkbox"/> Correspondence <input type="checkbox"/> Invoice
Mailing Address: <u>6859 Tanyard Hill RD</u>	City: <u>Winchester</u>	State: <u>TN</u>	Zip: <u>37398</u>	
Phone number(s): <u>931-467-8432</u>	E-mail:			
Optional Contact: <u>Veronica Betts</u>		Title or Position: <u>wife</u>		<input type="checkbox"/> Correspondence <input type="checkbox"/> Invoice
Address: <u>Same</u>	City:	State:	Zip:	
Phone number(s): <u>Same</u>	E-mail:			

APPLICATION CERTIFICATION AND SIGNATURE (must be signed in accordance with the requirements of Rule 1200-4-5-.05)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and title, print or type <u>MARVIN BETTS</u>	Signature <u>[Signature]</u>	Date <u>11/25/11</u>
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STATE USE ONLY

Received Date <u>DEC 1 2011</u>	Reviewer	EFO	T & E Aquatic Fauna	Tracking No.
Impaired Receiving Stream		High Quality Water		NOC Date


Addendum to Nutrient Management Plan:

By my signature below, I affirm that I have read, understand, and will comply with the following stipulations from Tennessee's CAFO rule (1200-4-5-.14) that apply to my CAFO operation.

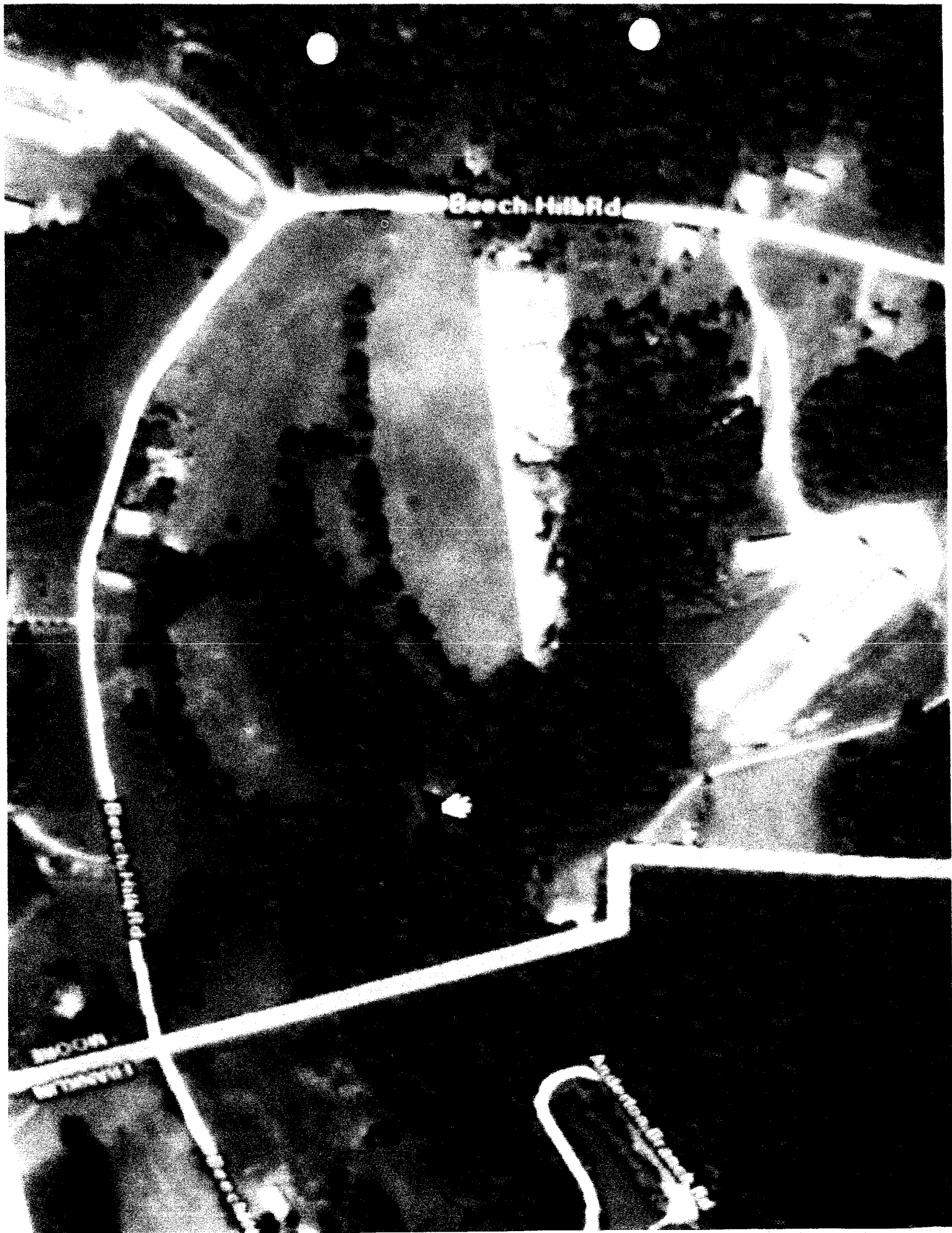
- 1) All clean water (including rainfall) is diverted, as appropriate, from the production area.
- 2) All animals in confinement are prevented from coming in direct contact with waters of the state.
- 3) All chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- 4) All sampling of soil and manure/litter is conducted according to protocols developed by UT Extension.
- 5) All records outlined in 1200-4-5-.14(16)d-f will be maintained and available on-site.
- 6) Any confinement buildings, waste/wastewater handling or treatment systems, lagoons, holding ponds, and any other agricultural waste containment/treatment structures constructed after April 13, 2006 are or will be located in accordance with NRCS Conservation Practice Standard 313.
- 7) Drystacks of manure or stockpiles of litter are always kept covered under roof or tarps.
- 8) An *Annual Report* will be written for my operation and submitted between January 1 and February 15 of each year. It will include all information required by rule [1200-4-5-.14(16)g].



Signature of CAFO Operator:

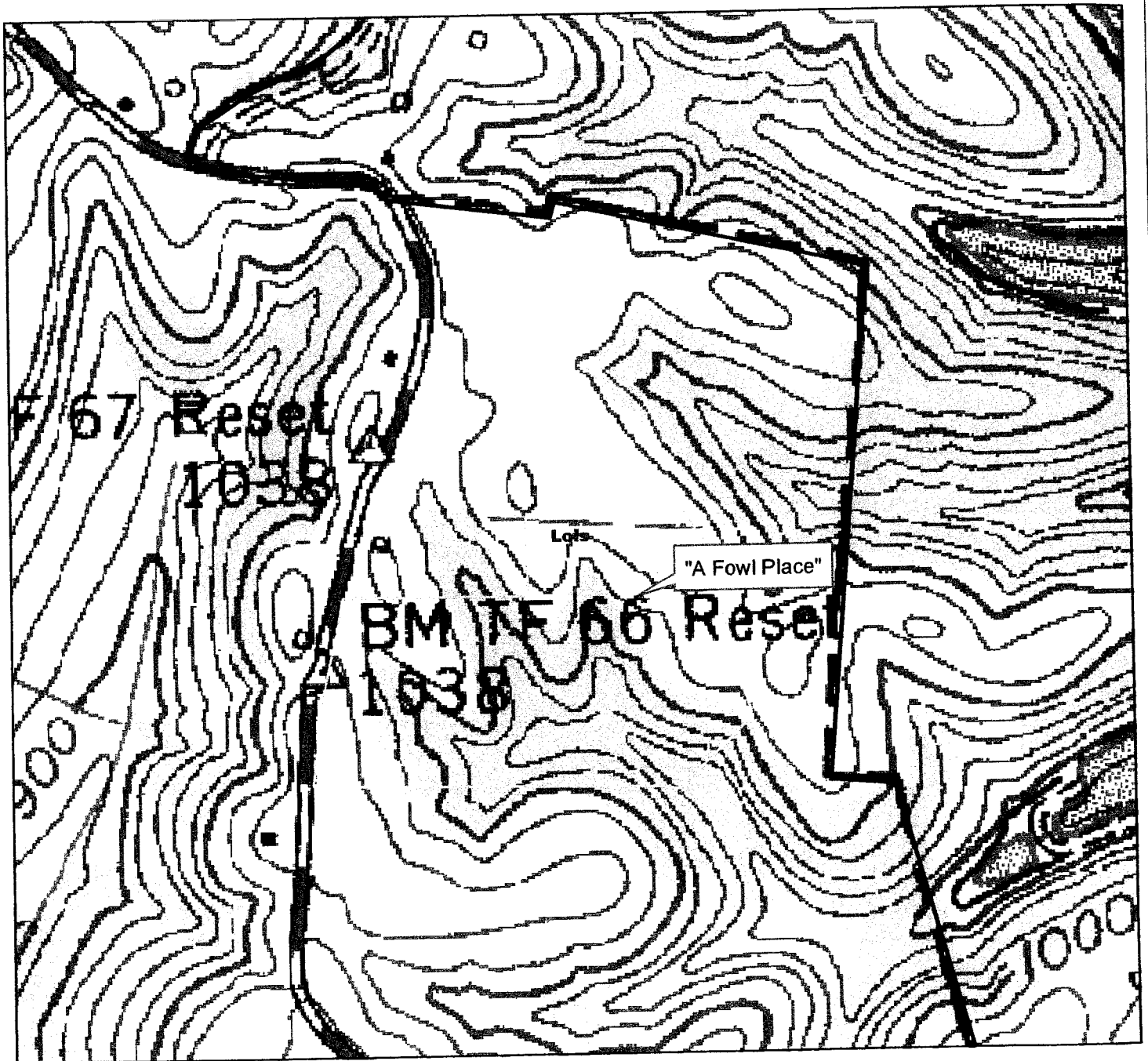


Date:





Customer(s): MARVIN D BETTS
District: MOORE COUNTY SOIL CONSERVATION DISTRICT

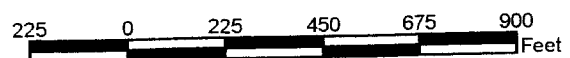
Field Office: LYNCHBURG PROGRAM DELIVER
Agency: NRCS
Assisted By: Ladonna Rae Caldwell



Legend

Consplan1

-  County Boundary
-  Topo Boundaries



N



Nutrient Management Plan - Poultry

For Use by Farms

Exporting 100% of Litter Generated

1. Farmer/ Producer Information

Is ALL Litter Hauled Offsite*

*If the answer is "No," do not complete this form.

Yes

No

Please circle one

First Name:

MARVIN

Last Name:

BETTS

Farm/ Operation Name:

A Fowl Place

Tennessee County:

MOORE

2. Volumes and Calculations

Poultry Type:

Broiler

Pullet

Layer

circle the type(s)

Key

A Number of birds per house
per grow-out:

31 300

B Number of Houses:

2

C Number of Grow-Outs / Year:

6

D Average Weight of Litter
Produced (lbs.)/ Bird / Grow-
Out (see Table at right or use
your farm average if known)

2.4

The amount of litter removed from a poultry house will vary depending on the litter moisture content, type and size of birds, and length of time birds are kept in house. Below is a Table summarized from the NRCS Poultry System Calculator V10.0 to assist in placing the litter amount produced per bird and assist in litter calculations.

Type of Bird	Market/ Mature Weight (lbs)	Avg. Weight of Litter Produced (lbs)/ Bird / Grow-Out
Broilers	small (3.8 - 5.8)	2.1
	large (5.9 - 7+)	2.4
Layer	8 - 12	8
Pullet	5.5	3

Take **Bolded** Letters in Key Column Above and Below to Assist in Calculating Values Below

Number of Birds per Grow-Out = A x B =

62 400

Number of Birds Example: If A = 22,000 and B = 2 and C = 5.5 then:

22,000 x 2 = 44,000 number of birds

KEY:

E Number of Birds per Year = A x B x C =

375 600

Number of Birds per Year Example: If A = 22,000 and B = 2 and C = 5.5 then:

22,000 x 2 x 5.5 = 242,000 number of birds per year

Total Tons of Litter Produced per Year on the Farm = E x D / 2,000 =

450.7

Tons of Litter Produced Example: If E = 242,000 and D = 2.1 lbs. then:

242,000 x 2.1 lbs = 508,200 lbs. / 2,000 = 254 Tons

Tons of Litter Exported from Farm / Year

300

Nutrient Management Plan - Poultry

For Use by Farms

Exporting 100% of Litter Generated

3. Litter Handling and Storage

Litter Contents from Manure Analysis

Laboratory Name	House	Date of Analysis	Total N	P ₂ O ₅ ^a	K ₂ O ^b	Units
University of Arkansas	A Feed Place	11/22/2011	76.4	25.8	59.2	lbs./Ton
University of Arkansas	A Feed Place	11/13/2011	81	26.6	49.2	lbs./Ton
University of Arkansas	A Feed Place	7/2/2011	6.0	27.5	50.2	lbs./Ton

I will get an annual manure analysis and provide the results to all parties which are given or purchase litter from my farm or operation.

[Signature]

Signature / Date Signed

11/28/11

Mortality Management

Dead birds will be disposed of according to State and local laws in a way that does not adversely affect groundwater or create public health concern. All mortalities will be disposed of using:

<input checked="" type="radio"/> Composting	<input type="radio"/> Incineration	<input type="radio"/> Other:
please circle one		

mwb
initials

Closure Plan

In the event that poultry production at this location ceases, the following will be done within 360 days:

- Any litter/ compost currently in storage at the time of closure will be removed and spread elsewhere according to my current NMP.
- All litter in houses will be removed and spread elsewhere according to my current NMP.
- The most current manure analysis performed by an accredited laboratory will be provided to anyone removing litter on my farm.
- Any dead birds in the houses at the time of closure will be disposed of according to my NMP.

[Signature]

Signature that I have read and agree to this Closure Plan

11/28/11

Date signed

Notes:

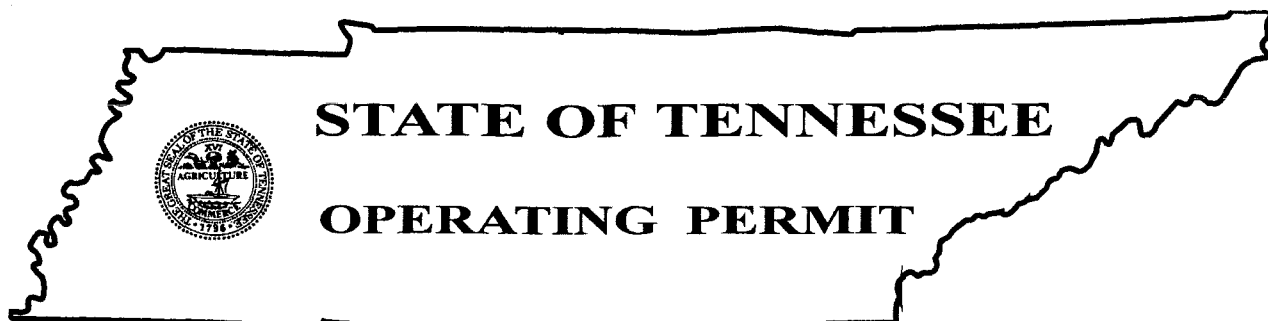
N = Nitrogen

P₂O₅ = Phosphorus Oxide

K₂O = Potassium Oxide

^aIf Phosphorus is expressed in analyses as Phosphorus (P), simply multiple P lbs. x 2.3 to convert to P₂O₅.

^bIf Potassium is expressed in analyses as Potassium (K), simply multiple K lbs. x 1.2 to convert to K₂O.



Permit Tracking No. SOPC00077

**Notice of Coverage
For
General State Operating Permit for Concentrated Animal Feeding Operations (CAFOs),
Permit Number SOPC00000**

Issued By
Tennessee Department of Environment and Conservation
Division of Water Pollution Control
401 Church Street
6th Floor, L & C Annex
Nashville, Tennessee 37243

In accordance with the provisions of Tennessee Code Annotated Section 69-3-108 and regulations promulgated pursuant thereto:

Permittee: **A Fowl Place/Chick Inn**
is authorized: **to operate a concentrated animal feeding operation that does not discharge and that is not designed, constructed, operated or maintained such that a discharge could occur**
from a facility with: **111,000 animals (Poultry-Broilers) grown for Tyson**
located at: **6859 Tanyard Hill Road/7012 Tanyard Hill Rd in Winchester, Moore County, Tennessee**

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

This notice of coverage shall become effective on: **June 27, 2011**

And shall expire on: **May 31, 2015**

Issuance date: **June 27, 2011**

A handwritten signature in black ink that reads "Paul E. Davis". The signature is written in a cursive style and is positioned above a horizontal line.

Paul E. Davis, Director
Division of Water Pollution Control



CEPS Central Analytical Laboratory

Report Date: 11/22/2011

Report No: 121696

poultryscience.uark.edu

University of Arkansas

Poultry Science Center L-209

Fayetteville, AR 72701

479-575-6532

Investigator	Marvin Betts	CAL Sample ID: 121696
Institution		
Department		
Address	6859 Tanyard Hill Rd; Winchester, TN 37398	
Customer#	083074	
Phone#	931-967-8432	
Report Description	NPK of Poultry Litter	

<u>Sample ID</u>	<u>N</u> lbs/ton	<u>P</u> lbs/ton	<u>K</u> lbs/ton
A Fowl Place	76.4	25.8	59.2

Sample was analyzed on an *as-is* basis.

Report Approved: _____

Linda K. Kirby

Date

Nutrient Management Plan - Poultry

For Use by Farms

Exporting 100% of Litter Generated

4. Checklist

Use this sheet to help ensure that you have included all required items in order for your CAFO application and Nutrient Management Plan to be approved.

Forms

- Signed revised Notice of Intent Form
- Signed Addendum to Nutrient Management Plan

Maps

- Map of Farm/ Operation Showing the Location of Barns/ Houses, Compost Bins, Litter Storage Bins, Nearby Roads, Streams, Wetlands, etc.
- Topographical map of the Farm/ Operation showing property lines and location of poultry houses.

Calculations and Volumes

- Number of Birds per House
- Total Number of Birds per Year
- Number of Houses
- Number of Grow-Outs Each Year
- Average Weight of Birds
- Tons of Litter Produced Per Year

Manure Analysis / Mortality Disposal

- Annual Manure Analysis Performed by an Accredited Laboratory
- Statement Regarding Dead Animal Disposal / Mortality Management*
**If rendering is method listed, make sure to include the name and address of the renderer in the notes area at the bottom of this sheet.*

Notes: All dead birds will be composted

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DEC 09 2011

Closure Plan

In the event that broiler production at this location ceases, the following will be done within 360 days:

- Any litter/compost currently in storage at the time of closure will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan,
- All litter in houses will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan,
- The most current litter analysis will be provided to anyone removing litter from the farm,
- Any dead birds in the houses at the time of closure will be composted.



Date: 11/25/11